

**Missouri General Water Quality Certification for NWP 18
(Small Fills)**

1. No channelization work may be conducted as part of a project authorized by this permit because of cumulative impacts to watersheds, including flooding, bank instability, loss of aquatic habitat (pool and riffle complexes), bed degradation, loss of stormwater retention and loss of riparian areas. For purposes of this certification, channel modifications are any activities that alter the width, depth, length and/or sinuosity of a waterway. This would include, but is not limited to, moving, shortening, cutting off, straightening, widening or modifying the cross section of or fills in a stream channel, whether natural or previously altered. This would not include bank sloping activities for bank stabilization activities.
2. Best management practices shall be used at all times to reduce and prevent sedimentation and erosion into the stream.
3. Care shall be taken to keep machinery out of the waterway as much as possible.
4. Fuel, oil and other petroleum products, equipment and any solid waste shall not be stored below the ordinary high water mark at any time or in the adjacent floodway beyond normal working hours. All precautions shall be taken to avoid the release of wastes or fuel to streams and other adjacent waterbodies as a result of this operation. Petroleum products spilled into any waterbody or on the banks where the material may enter waters of the state shall be immediately cleaned up and disposed of properly.
5. Clearing of vegetation/trees shall be the minimum necessary to accomplish the activity.
6. The riparian area, streambanks and streambed shall be restored to a stable condition to protect water quality as soon as possible. Seeding of native vegetation, mulching and needed fertilization shall be within three days of final contouring. On-site inspections of these areas shall be conducted as necessary to ensure successful revegetation and stabilization, and to ensure that erosion and deposition of soil in waters of the state is not occurring from this project.
7. Only clean, unpolluted fill shall be used.
8. Work shall be conducted during low flow whenever possible.
9. The following materials are not suitable for bank stabilization and should not be used. Recycled concrete may be used provided that it is clean material broken into appropriately sized pieces of riprap with no protruding rebar.
 - a. Earthen fill, gravel, broken concrete where the majority of material is less than 12 inches in diameter, and fragmented asphalt, since these materials are usually not substantial enough to withstand erosive flows;
 - b. Concrete with exposed rebar which may pose a safety hazard;
 - c. Tires, vehicles or vehicle bodies, construction or demolition debris are solid waste and are excluded from placement in the waters of the state; and

- d. Liquid concrete, including grouted riprap, which releases water contaminants into water when it is fresh and which may be physically unstable if not placed as part of an engineered structure.
10. Activities should not occur between March 15 and June 15 to protect fish spawning habitat. Authorization for work in this time period may be granted on a case by case basis. To request this authorization, please contact the Water Pollution Control Program.
 11. This Water Quality Certification is not valid for any Section 404 permit issued on a water listed as impaired pursuant to Section 303(d) for contaminants that are involved in the permitted activity, including but not limited to sediment, flow alteration, nutrient enrichment, suspended solids, habitat destruction, temperature and dissolved oxygen or if the activities are located in or occurs within 2 miles upstream of a designated outstanding state or national resource area (10 CSR 20-7.031).